

**ABSTRACT OF THE DISCLOSURE**

5 A compensating circuit initially adjusts the electrical parameters for a plurality of light emitting diodes for inclusion within standardized specifications for the electrical system of a light fixture. The compensating circuit includes a compensator which may be a zener diode positioned downstream from a series of light emitting diodes. The compensating software monitors the current drop across a series of light emitting diodes and initially assigns a current analysis value based upon the frequency and/or type of light emitting diode utilized. The compensating software then compares a  
10 signal representative of the current drop to the current analysis value to increase and/or decrease current exposed to the light emitting diodes to maximize illumination from the light sources.

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